BBA

Lipids and Lipid Metabolism

Vol. 1081, 1991

Cumulative Contents

Review

Structural and functional features of different types of cytoplasmic fatty acid-binding proteins
J.H. Veerkamp, R.A. Peeters and R.G.H.J. Maatman (The Netherlands) 1

Regular Papers

The protein phosphatase inhibitor, okadaic acid, inhibits phosphatidylcholine biosynthesis in isolated rat hepatocytes
G.M. Hatch, Y. Tsukitani and D.E. Vance (Canada, Japan) 25

Eicosapentaenoic acid ethyl ester as an antithrombotic agent: comparison to an extract of fish oil
C.M. Wojenski, M.J. Silver and J. Walker (U.S.A.) 33

Cholestasis induced by lithocholate and its glucuronide: their biliary excretion and metabolism
H. Takikawa, H. Ohki, N. Sano, T. Kasama and M. Yamanaka (Japan) 39

Surface properties and sensitivity to protein-inhibition of a recombinant apoprotein C-based phospholipid mixture in vitro – comparison to natural surfactant
W. Seeger, C. Thede, A. Günther and C. Grube (F.R.G.) 45

Appearance of surfactant proteins, SP-A and SP-B, in developing rat lung and the effects of in vivo dexamethasone treatment
H. Shimizu, K. Miyamura and Y. Kuroki (Japan) 53

Influence of aminophylline on the lipids in *Microsporum gypseum*
A. Bindra and G.K. Khuller (India) 61

Oxidation of lipoprotein Lp(a). A comparison with low-density lipoproteins
W. Sattler, G.M. Kostner, G. Waeg and H. Esterbauer (Austria) 65

Fatty acid composition of the rat pineal gland. Dietary modifications
N. Sarda, A. Gharib, M. Croset, P. Molière and M. Lagarde (France) 75

Double hydroperoxidation of α-linolenic acid by potato tuber lipoxygenase
A.N. Grechkin, R.A. Kuramshin, E.Y. Safonova, Y.J. Yefremov, S.K. Latypov, A.V. Ilyasov and I.A. Tarchevsky (U.S.S.R.) 79

Peroxisomal retroconversion of docosahexaenoic acid (22 : 6($n-3$)) to eicosapentaenoic acid (20 : 5($n-3$)) studied in isolated rat liver cells
M. Grønn, E. Christensen, T.-A. Hagve and B.O. Christophersen (Norway) 85

Eicosanoid-dependent and -independent formation of individual [^{14}C]stearoyl-labelled lysophospholipids in collagen-stimulated human platelets
L.M. Thomas and B.J. Holub (Canada) 92

Peroxidase-like activity of lipoxygenases: different substrate specificity of potato 5-lipoxygenase and soybean 15-lipoxygenase and particular affinity of vitamin E derivatives for the 5-lipoxygenase
C. Cucurou, J.P. Battioni, R. Daniel and D. Mansuy (France) 99

Report

Cerebral low-density lipoprotein (LDL) uptake is stimulated by acute bile drainage
M. Malavolti, H. Fromm, S. Ceryak and K.L. Shehan (U.S.A.) 106

Review

Beta oxidation of fatty acids
H. Schulz (U.S.A.) 109

Regular Papers

Kinetic advantage of the interaction between the fatty acid β-oxidation enzymes and the complexes of the respiratory chain
B. Sumegi, Z. Porpaczy and I. Alkonyi (Hungary) 121

On the mechanistic reasons for the dual positional specificity of the reticulocyte lipoxygenase
H. Kühn, D. Heydeck and H. Sprecher (F.R.G., U.S.A.) 129

12-Lipoxygenase from rat basophilic leukemia cells: separation from 5-lipoxygenase and temperature-dependent inactivation by hydroperoxy fatty acid
E.M.M. Van der Donk, J. Verhagen, G.A.

Veldink and J.F.G. Vliegenthart (The Netherlands) 135

Lung calcium-dependent phospholipid-binding proteins: structure and function
F.H.C. Tsao, W.M. Hull, M.S. Strickland, J.A. Whitsett, T.K.F. Foo, G. Zografi and P.M. DeLuca Jr. (U.S.A.) 141

Sexual dimorphism in the preferential secretion of unsaturated lysophosphatidylcholine by rat hepatocytes but no secretion by sheep hepatocytes
A. Graham, V.A. Zammit, W.W. Christie and D.N. Brindley (Canada, U.K.) 151

A sensitive assay of lysogangliosides using high-performance liquid chromatography
T. Kobayashi and I. Goto (Japan) 159

Omega-oxidation of fatty acids studied in isolated liver cells
E. Christensen, M. Grønn, T.-A. Hagve and B.O. Christophersen (Norway) 167

Metabolism of oxidized linoleic acid: characterization of 13-hydroxyoctadecadienoic acid dehydrogenase activity from rat colonic tissue
S.M. Earles, J.C. Bronstein, D.L. Winner and A.W. Bull (U.S.A.) 174

Spectroscopic detection of lipid peroxidation products and structural changes in a sphingomyelin model system
O.P. Lamba, S. Lal, M.C. Yappert, M.F. Lou and D. Borchman (U.S.A.) 181

Interaction of a high-affinity heparin subfraction with low-density lipoprotein stimulates cholesteryl ester accumulation in mouse macrophages
S.R. Srinivasan, P. Vijayagopal, K. Eberle, B. Radhakrishnamurthy and G.S. Berenson (U.S.A.) 188

Smoking alters thromboxane metabolism in man
W.M. Uedelhoven, A. Rützel, C.O. Meese and P.C. Weber (F.R.G.) 197

In vivo clearance of low-density lipoproteins and β-very-low-density lipoproteins in normal and hypercholesterolemic White Carneau pigeons
J.W. Reagan, Jr. and R.W. St. Clair (U.S.A.) 202

Behaviour of phospholipase modified-HDL towards cultured hepatocytes. II. Increased cell cholesterol storage and bile acid synthesis
X. Collet, C. Vieu, H. Chap and B.-P. Perret (France) 211

Effects of apolipoprotein structure on the kinetics of apolipoprotein transfer between phospholipid vesicles
J.A. Ibdah, C. Smith, S. Lund-Katz and M.C. Phillips (U.S.A.) 220

Synthesis of polyphosphoinositides in transverse tubule and sarcoplasmic reticulum membranes of frog skeletal muscle
K. Asotra, N. Lagos and J. Vergara (U.S.A.) 229

Report

Removal of cholesteryl ester from hepatic reticuloendothelial cells in vivo is not enhanced by plasma cholesteryl ester transfer protein
O. Stein, Y. Dabach, G. Hollander and Y. Stein (Israel) 238

Regular Papers

Defective plasma clearance of chylomicron-like lipid emulsions in Watanabe heritable hyperlipidemic rabbits
J.C.L. Mamo, A. Bowler, C.L. Elsegood and T.G. Redgrave (Australia) 241

Effects of hyperthyroidism on synthesis, secretion and metabolism of the VLDL apoproteins by the perfused rat liver
H.G. Wilcox and M. Heimberg (U.S.A.) 246

Glycolipids and glycosyltransferases in permanent cell lines established from human medulloblastomas
J. Gottfries, A.K. Percy, J.-E. Månsson, P. Fredman, C.J. Wikstrand, H.S. Friedman, D.D. Bigner and L. Svennerholm (Sweden, U.S.A.) 253

Role of the side chain of lanosterol in substrate recognition and catalytic activity of lanosterol 14α-demethylase (cytochrome $P\text{-}450_{14DM}$) of yeast
Y. Aoyama, Y. Yoshida, Y. Sonoda and Y. Sato (Japan) 262

Inhibition of arachidonic acid incorporation into erythrocyte phospholipids by peracetic acid and other peroxides. Role of arachidonoyl-CoA : 1-palmitoyl-*sn*-glycero-3-phosphocholine acyl transferase
D.W. Allen, L.M. Newman and I.J. Okazaki (U.S.A.) 267

A monoclonal antibody against the sulfidopeptide leukotrienes LTC_4, LTD_4 and LTE_4
M. Reinke, U. Hoppe, T. Röder, H.-J. Bestmann, J. Mollenhauer and K. Brune (F.R.G.) 274

Effect of sterol side-chain structure on the feedback control of sterol biosynthesis in yeast
W.M. Casey, J.P. Burgess and L.W. Parks (U.S.A.) 279

Localization of enzymes involved in glycero-ether bond formation in rat liver
D. Hardeman and H. Van den Bosch (The Netherlands) 285

Effects of probucol on lipid metabolism and secretion in long-term cultures of adult rat hepatocytes
F.M. De La Vega and T. Mendoza-Figueroa (México) 293

Synthesis, structural identification and biological activity of 11,12-dihydroxyeicosatetraenoic acids formed in human platelets
P. Westlund, J. Palmblad, J.R. Falck and S. Lumin (Sweden, U.S.A.) 301

The binding of human lipoprotein lipase treated VLDL by the human hepatoma cell line HepG2
M. Mulder, E. De Wit and L.M. Havekes (The Netherlands) 308

Developmental profiles of arylsulfatases A and B in rat cerebral cortex and spinal cord
R.H.M. Van der Pal, W. Klein, L.M.G. Van Golde and M. Lopes-Cardozo (The Netherlands) 315

Characterization of a new phosphonocerebroside, *N*-methyl-2-aminoethylphosphonylglucosylceramide, from the antarctic krill, *Euphausia superba*
S. Itonori, K. Kamemura, K. Narushima, N. Sonku, O. Itasaka, T. Hori and M. Sugita (Japan) 321

Interactions between model triacylglycerol-rich lipoproteins and high-density lipoproteins in rat, rabbit and man
I.J. Martins, L. Hopkins, C.A. Joll and T.G. Redgrave (Australia) 328

Characterization of CoA-independent transacylase activity in U937 cells
J.D. Winkler, C.-M. Sung, C.F. Bennett and F.H. Chilton (U.S.A.) 339

Investigation of the mechanism of biosynthesis of 8-hydroxyeicosatetraenoic acid in mouse skin
M.A. Hughes and A.R. Brash (U.S.A.) 347

Author Index 359